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Imagery analysis report

**445F at Nikolayev Shipyard
Northern 61 Kommuna 445, USSR (S)**

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445F AT NIKOLAYEV SHIPYARD NORTHERN 61 KOMMUNA 445, USSR (S)

1. (TSR) A comprehensive analysis of the 445F, the largest gas turbine warship in the Soviet Navy and the second Soviet cruiser to carry four separate missile systems, was made from high-quality imagery of the Nikolayev Shipyard Northern 61 Kommuna 445, USSR.

2. (TSR) The 445F has an overall length of [] and a maximum beam of [] meters. Its propulsion consists of four boost engines and three cruise engines. Three of the four missile systems are surface-to-air while the fourth is surface-to-surface cruise.

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3. (TSR) The surface-to-air missiles are aft and probably represent the preferred Soviet mix for high-value ships. The SA-NX-6 (the naval version of the SA-X-10) weapons space is aft of the stack and contains eight SA-NX-6 magazines with a probable total load of 64 SA-NX-6 missiles. A possible SA-X-11 (naval version) weapons space is between the helicopter hangar and the SA-NX-6. It is [] wide and [] long. A base for a missile launcher is above the possible SA-X-11 weapons space and has a diameter of []. Two SA-N-4 positions are abeam the helicopter hangar.

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4. (TSR) Ten twin-tube cruise missile launcher deck mounts are in the area abeam the bridge and forward deckhouse. Based on an analysis of these deck mounts, the launch tube dimensions will be [] in diameter and [] in length. The specific cruise missile system to be installed is unknown.

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5. (TSR) Conventional weapons systems will include a naval gun and gatling guns. Four gatling gun positions are amidships, forward of the stacks. A position for a large caliber naval gun is on the fore deck. None of the guns has, as yet, been installed.

6. (TSR) Each of the four boost engines has an uptake of [] in diameter and an area of []. Each of the three cruise engines has an uptake of [] in diameter and an area of []. The total uptake area for all seven engines is [].

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7. (TSR) Construction of the first 445F was begun between late October 1976 and early March 1977. This unit was launched and began fitting-out in July 1979. Construction of unit two of this class began in October 1978 and, as of [], was continuing. A third unit may be under construction on the buildingway vacated by unit one.

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8. (TSR) Two Kashin guided missile destroyers (DDG) were fitting-out, one on either side of the 445F.

(S) Comments and queries regarding this report are welcome. They may be directed to [] Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC, [].

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